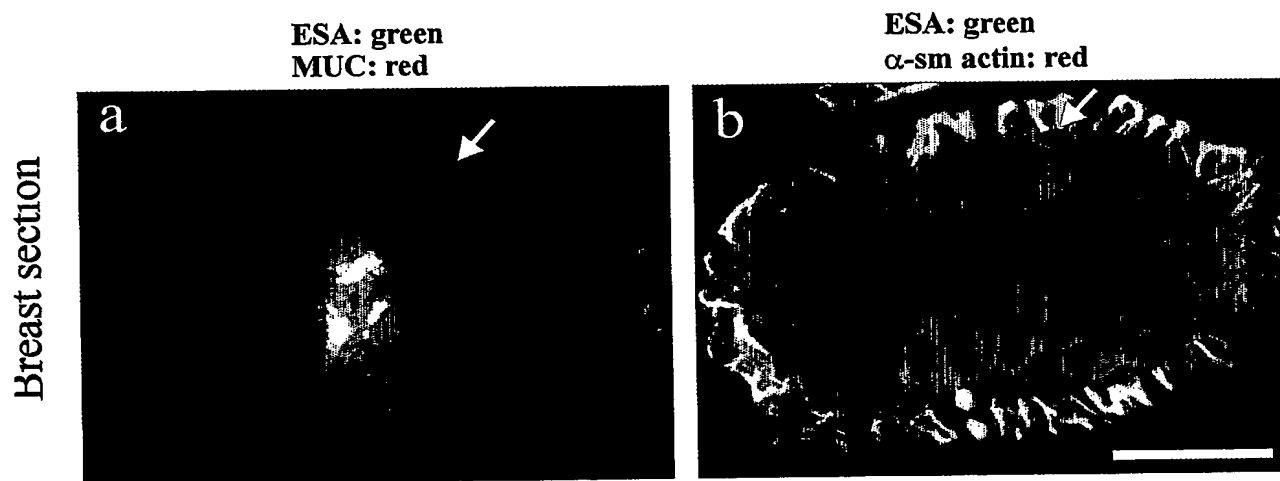
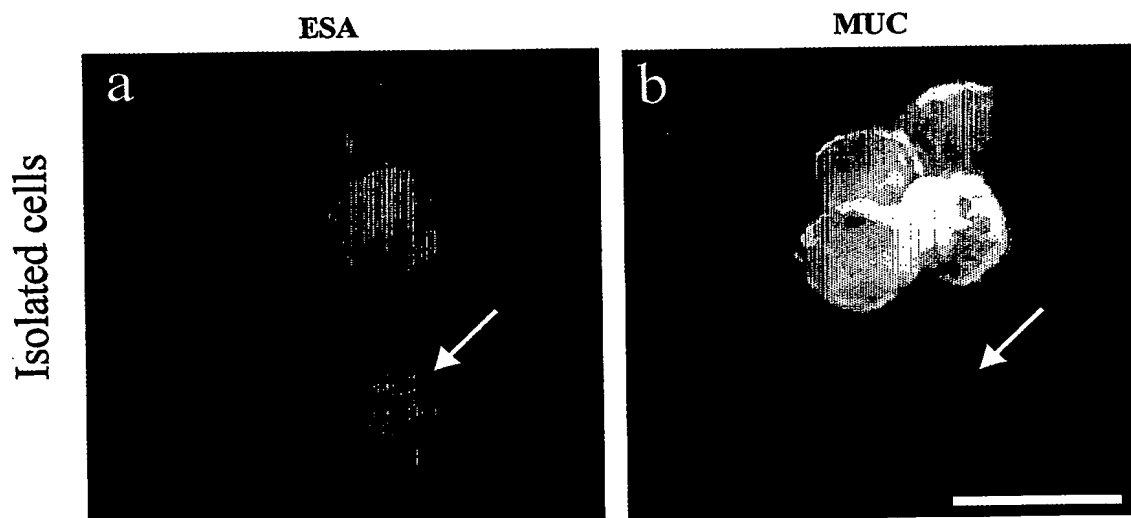


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*Identification of "suprabasal" luminal epithelial cells in the breast.**A. Suprabasal cells belong to the luminal epithelial lineage.**B. A subset of cells within the luminal epithelial lineage is sialomucin-negative.*

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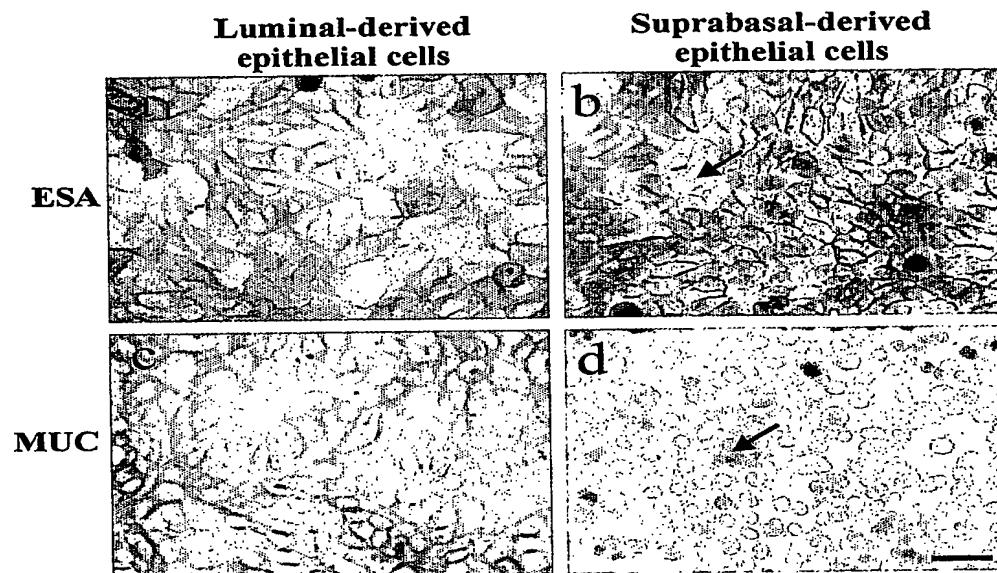
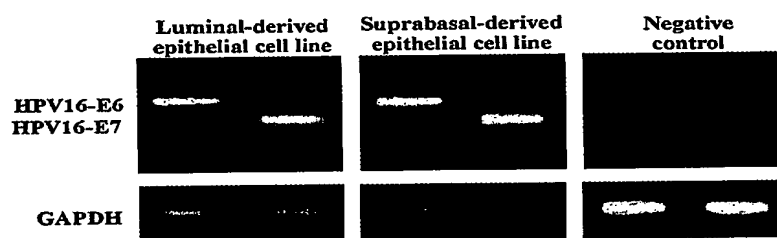
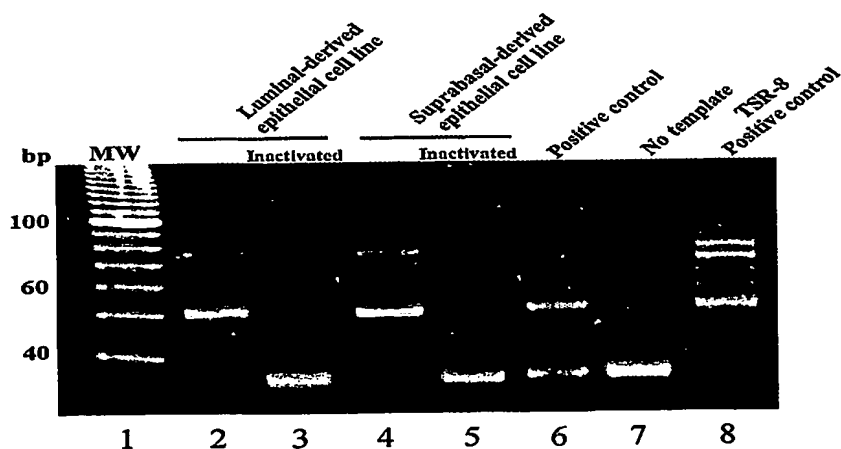
*Isolation, immortalization and characterization of luminal and suprabasal-derived epithelial cells.***A.****B.****C.**

Fig. 2

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D. Both the luminal- and suprabasal-derived cell lines belong to the luminal epithelial lineage.

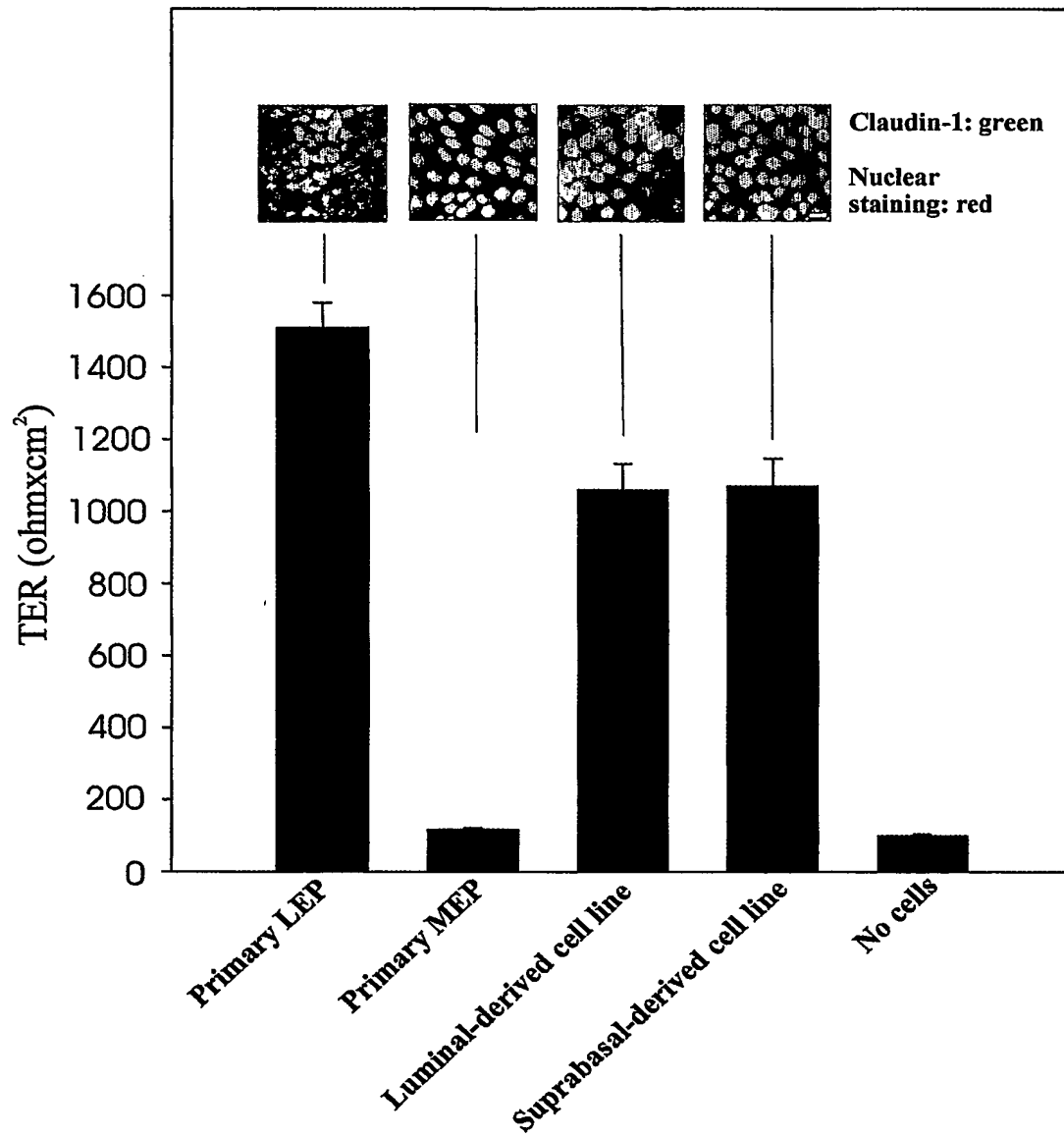


Fig. 2 (continued)

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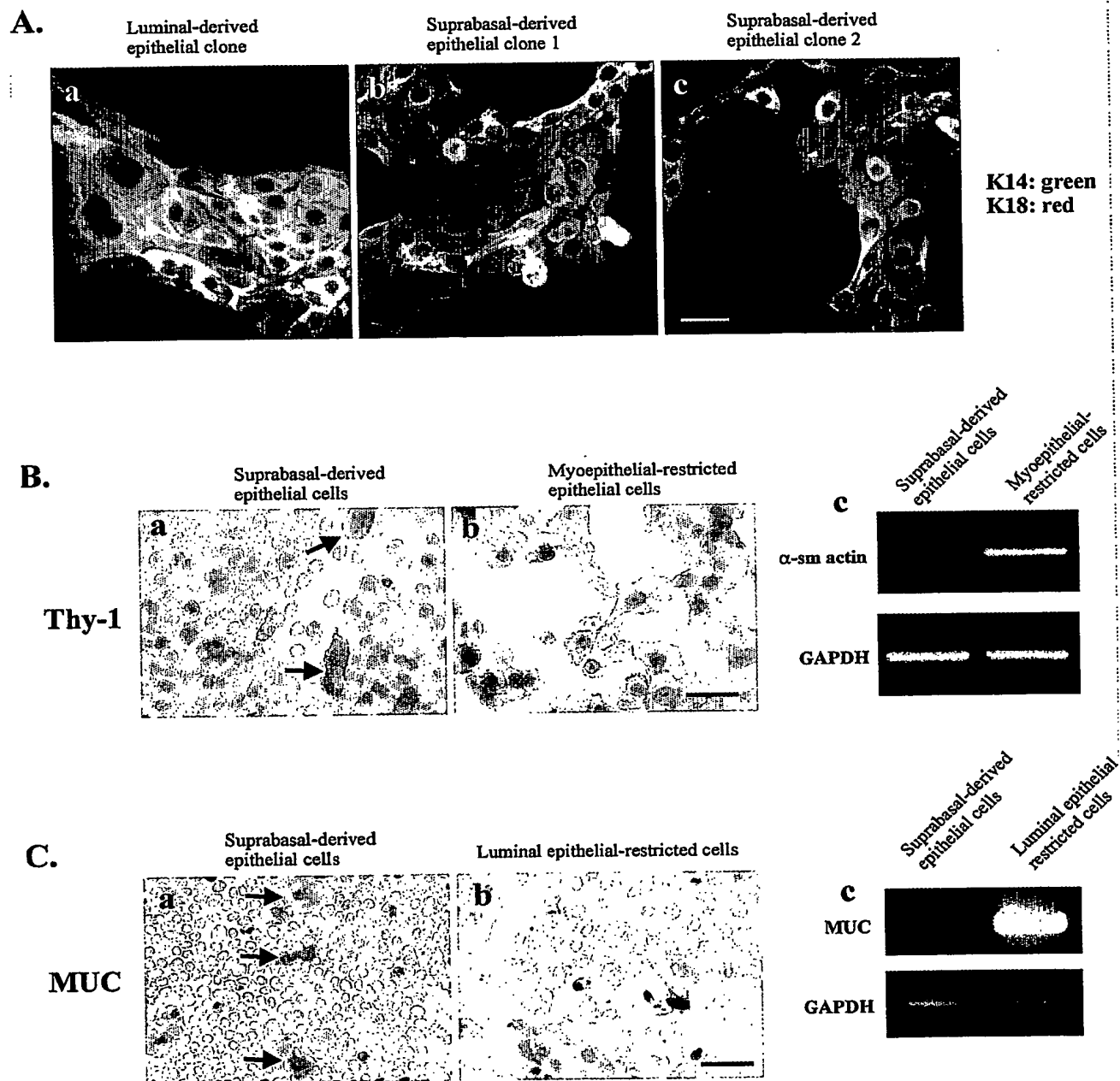
*Evidence for multipotency in the suprabasal-derived epithelial cell line*

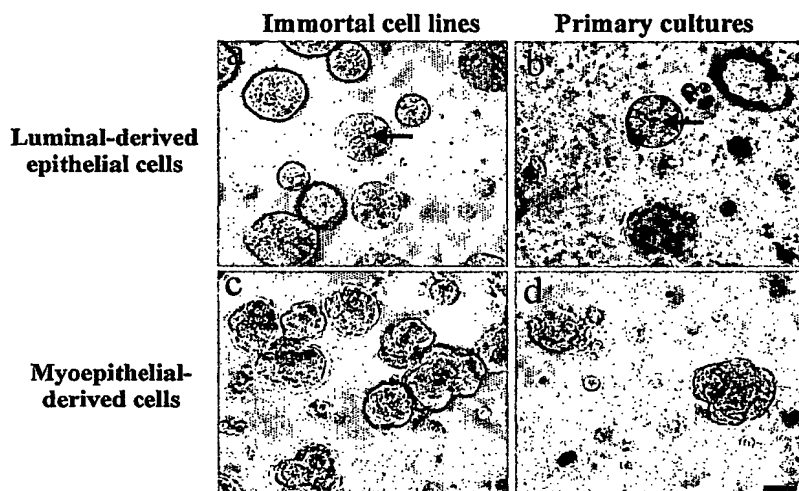
Fig. 3

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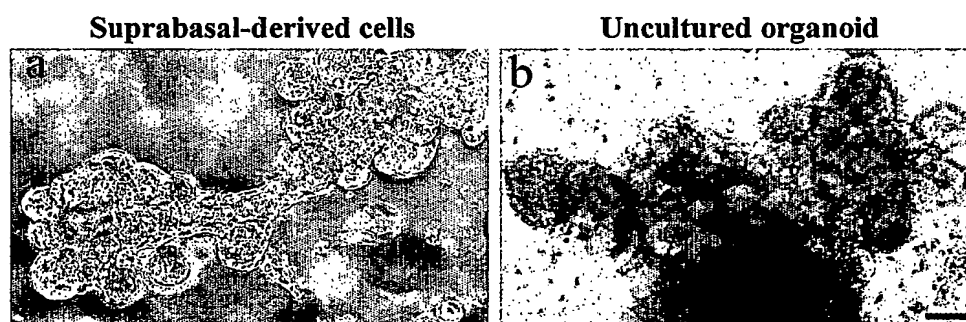
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*Only suprabasal-derived epithelial cells give rise to terminal duct lobular units (TDLUs).*

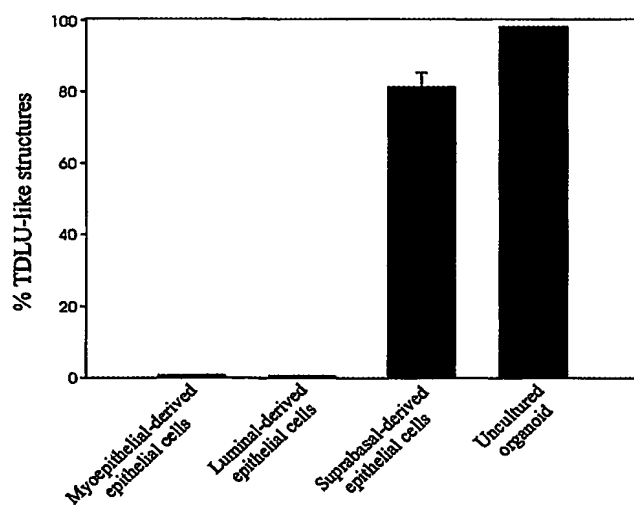
**A**



**B**



**C**



**Fig. 4**

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**D.** Only suprabasal-derived epithelial colonies in a laminin-rich gel resemble TDLU in vivo.

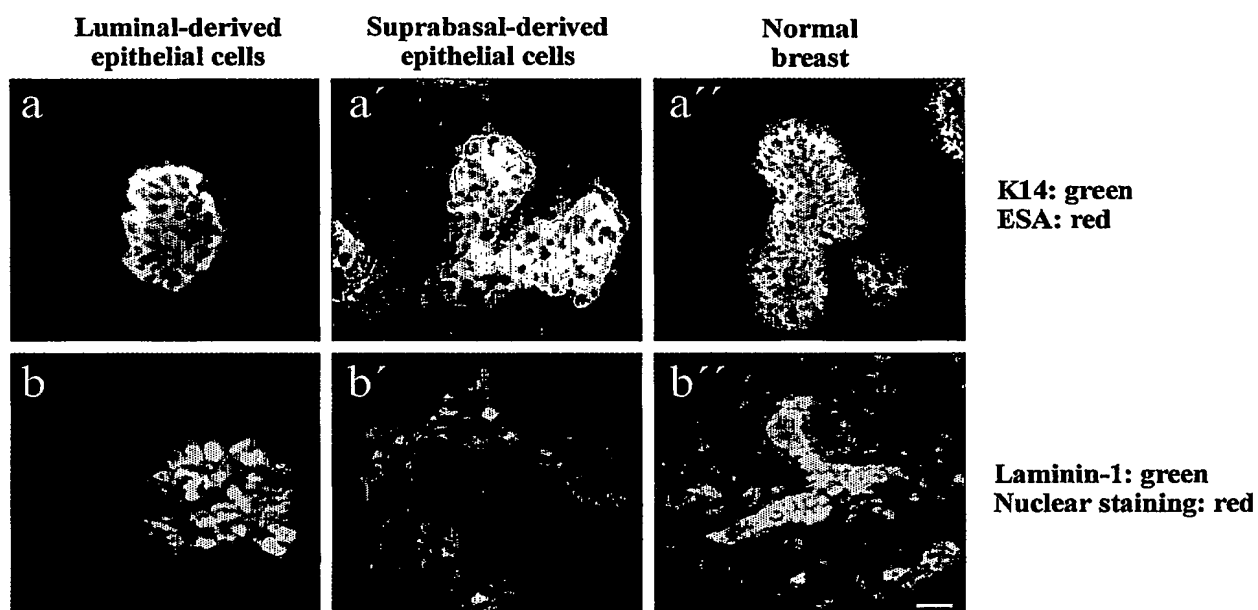


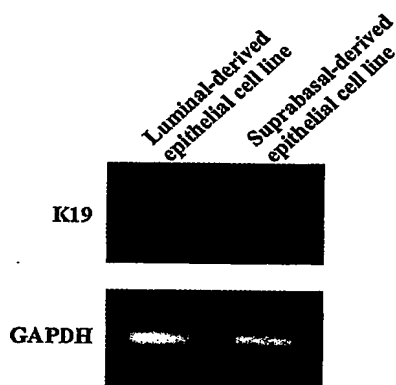
Fig.4 (continued)

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*The suprabasal-derived cells are keratin K19-positive similar to a subpopulation of cells in TDLU and neoplastic breast epithelial cells in vivo.*

- A. Luminal- and suprabasal-derived epithelial cells differ by expression of mRNA for keratin K19.



- B. Luminal and suprabasal-derived epithelial cells differ by expression of protein for keratin K19.



- C. Keratin K19 staining in cultures of luminal- and suprabasal-derived epithelial cells.

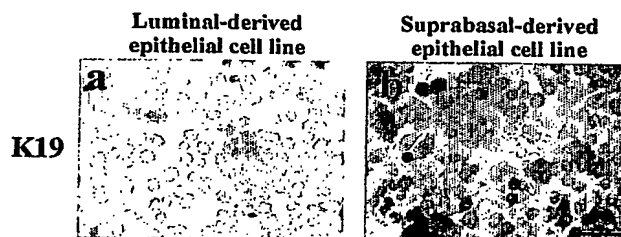


Fig. 5

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*Keratin K19 staining in sections of normal breast tissue (TDLU) and  
infiltrating ductal carcinoma (IDC).*

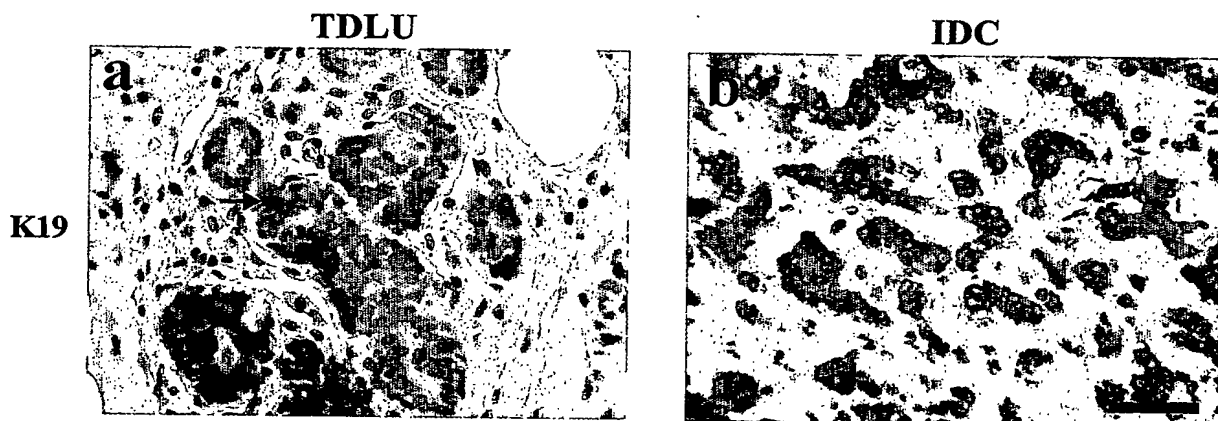


Fig.6

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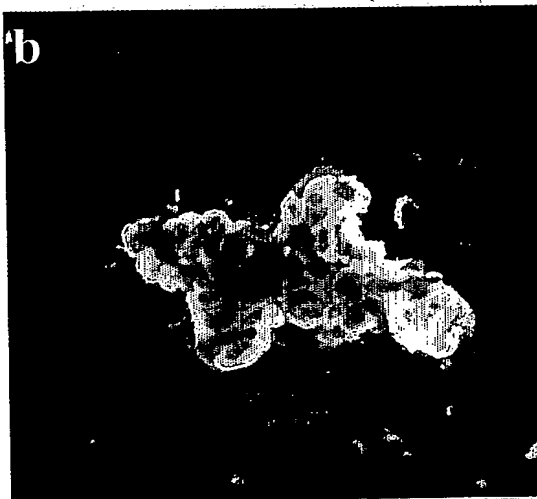
*Clonal segregation of keratin K19-positive and K14-positive cells in two- and three-dimensional culture, and mouse implants of suprabasal-derived epithelial cells.*

**Clone in monolayer**



**K14: green  
K19: red**

**Clone in  
laminin-rich gel**



**K14: green  
K19: red**

**Nude mouse implant**



**K14: green  
K19: red**

**Fig. 7**

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